1 01		1.43	Chronometer (e.g., clock,
1.01	INSTRUMENT PROVING OR CALIBRATING	1.45	watch, or watch unbalance)
1.02	.Gas or liquid analyzer	1.44	Using antenna or radio
1.03	Reference standard	1.11	frequency (RF)
1.04	Permeable outlet or flawed	1.45	Using optical sensor or
1 05	element	1.13	element
1.05	Piston, sprayer, nozzle, or	1.46	With sound sensor
1.06	orifice	1.47	Resilient element
1.00	Gas	1.48	Using sound sensor or
1.07	Span or zero		piezoelectric vibration sensor
1.00	Torque	1.49	Plural watches or plural
1.11	Electrical		sensors
1.12	Wrench	1.51	Resilient element
1.12	Weight	1.52	Plural watches
1.13	Rotor unbalance or a roller	1.53	With resilient element
1.14	having a smooth surface	1.54	Coil spring
1.15	Load cell (e.g., strain gauge	1.55	Plural coil springs
1.13	or piezoelectric sensor)	1.56	Optical instrument (e.g.,
1.16	.Volume of flow, speed of flow,		camera shutter) or optical
1.10	volume rate of flow, or mass		sensor
	rate of flow	1.57	.Fluid pressure
1.17	Plug with leak detector	1.58	Vacuum
1.18	Sphere	1.59	With signal correction or
1.19	Piston		processing
1.21	With plural pistons	1.61	Span
1.22	With magnetic or optical	1.62	Zero
1.22	sensor	1.63	With reference source or
1.23	With position sensing switch		attachment therefor
1.24	Tracer	1.64	Varying
1.25	Orifice or restriction	1.65	Dead weight type
1.26	Nozzle or venturi	1.66	Varying
1.27	Turbine, geared meter, pulse	1.67	Using or containing liquid
	activated, or counter	1.68	With piston and cylinder
1.28	Turbine or geared meter	1.69	Using or containing liquid
1.29	Anemometer or pitot tube	1.71	Pressure activated device
1.31	With liquid level monitor or	1.72	Valve
	timer	1.73	.Liquid level or volume measuring
1.32	Prover bell		apparatus
1.33	With floating element or	1.74	Volumetric dispenser (e.g.,
	weighing		pipette)
1.34	With signal processing, span or	1.75	.Angle, direction, or inclination
	set point adjustment (e.g.,	1.76	Compass
	zero correction)	1.77	Gyroscope
1.35	With pressure measurement or	1.78	Aircraft, inertial navigation,
	plural flowmeters		or attitude
1.36	Metering dispenser	1.79	.Displacement, motion, distance,
1.37	.Speed, velocity, or acceleration		or position
1.38	Acceleration utilizing an	1.81	Length, width, or height
	inertial element	1.82	.Apparatus for measuring by use
1.39	Involving pendulum or impact		of vibration or apparatus for
1.41	Optical or magnetic sensing		measuring vibration (e.g.,
1.42	.Timing apparatus (e.g., fuse,	1.83	acoustic or ultrasonic)
	camera, or shutter)	1.03	Liquid

1.84	Rotary or rotor unbalance	19.03	.By vibration
1.85	Seismic (e.g., geophone) or	19.04	.By rate of flow of the gas
	with optical sensor	19.05	.By pressure of the gas
1.86	Reference standard detail	19.06	Of a beverage
1.87	.Centrifuge	19.07	.Of metal
1.88	.Span or set point adjustment	19.08	.Of concrete, mortar, or plastic
	(e.g., zero correction)		while in a fluent state
1.89	.Roughness or hardness	19.09	.Of mud
7	BY ABRASION, MILLING, RUBBING, OR	19.1	.Of a liquid
	SCUFFING	19.11	Lubricant
8	.Wheel tread, tire, track, or	19.12	.Particular separator
	roadway	23.2	GAS ANALYSIS
9	FRICTIONAL RESISTANCE,	23.21	.With compensation detail (for
	COEFFICIENT OR CHARACTERISTICS		error or drift correction,
10	.Lubricant testing		etc.)
11.01	TESTING IMPACT DELIVERING DEVICE	23.22	For gas chromatography
	(E.G., A HAMMER)	23.23	Baseline drift correction
11.02	.Shot peener		circuitry
11.03	.Pile driving hammer	23.24	Rate of flow
11.04	TESTING OF SHOCK ABSORBING DEVICE	23.25	Temperature
	(E.G., AUTOMOBILE SHOCK	23.26	Gradient
	ABSORBER, GUN RECOIL	23.27	Pressure
	APPARATUS, ETC.)	23.28	For density or specific gravity
11.05	.Torsional vibration damper	23.29	Pressure
11.06	.Railway draft gear	23.3	.Breath analysis
11.07	.In situ vehicle suspension	23.31	.Gas of combustion
11.08	By applying reciprocating or	23.32	Air-fuel ratio
	oscillating motion	23.33	Solid content
11.09	.By applying reciprocating or	23.34	.Odor
	oscillating motion	23.35	.Gas chromatography
12.01	TESTING BY IMPACT OR SHOCK	23.36	With electrical computer or
12.02	.Resilient ball (e.g., golf ball,	23.30	data processor control
	baseball, etc.)	23.37	With spectrometer
12.03	.Typewriting ribbon or carbon	23.38	Petrochemical
	paper	23.39	Column detail
12.04	.Accelerated or decelerated	23.4	Detector detail
	specimen (e.g., propelled or	23.41	Including sample preparation or
	dropped specimen support	20.11	sampling
	carriage)	23.42	Detail of gas handling means
12.05	Particle or projectile specimen	24.01	.By vibration
12.06	Dropped	24.02	Produced by radiant energy
12.07	By hydraulic or pneumatic	24.03	Solid content of gas
	forces	24.04	Moisture content or vapor
12.08	.Specimen directly subjected to a		pressure of gas
	fluid pressure pulse or wave	24.05	Density or specific gravity of
12.09	.Specimen impactor detail	21.05	gas
12.11	Particle or projectile	24.06	Detector detail
12.12	Reciprocating or oscillating	25.01	.By thermal property
12.13	Dropped	25.01	With magnetic property (e.g.,
12.14	Pivoted	20.02	paramagnetic gas)
19.01	GAS CONTENT OF A LIQUID OR A	25.03	Thermoconductivity
	SOLID	25.03	Moisture content or vapor
19.02	.By gas chromatography	4J.UT	pressure

25.05	Detector detail	441	.Portable hand manipulable
28.01	.Solid content of gas		syringe type
28.02	Particle charging	442	With thermometer
28.03	Pressure	443	With calculator
28.04	Separator detail	444	.Freely vertical reciprocable
28.05	Impactor		float with carried indicium
28.06	Fractionalizing	445	Continuous test fluid supply
29.01	.Moisture content or vapor	446	With section means
	pressure	447	With liquid level responsive
29.02	Hygrometer		gauge or compensator
335.01	With optical element	448	Float structure
335.02	With electric circuitry or	449	With carried thermometer or
	electric circuit component		thermal compensator
	detail	450	Specimen carrying
335.03	Impedance	451	.Float operated indicator
335.04	Capacitance	452	Continuous test fluid supply
335.05	Resistance or conductivity	453	Electrical indication
335.06	Wet and dry responsive	454	Pivoted float
	elements	32 A	.Involving vibration of substance
335.07	With direct readout or		or the measuring apparatus
	calculator detail	35.01	ENGINE DETONATION (E.G., KNOCK)
335.08	Wet bulb detail	35.02	.Fuel rating (e.g., octane
335.09	Relative air motion creating		rating)
	means (e.g., sling	35.03	.Combustion signal compared to
	psychrometer)		reference signal varied by a
335.11	Expanding-sorption element		condition of the engine
335.12	Coiled or twisted	35.04	Including calculation means
335.13	Arcuate or elongated	35.05	Automatic gain control or
335.14	Tensioned		feedback control
29.03	Pressure	35.06	.Combustion signal compared to a
29.04	With visual indication		fixed reference signal or
29.05	Detector detail		utilizing a threshold value
30.01	.Density or specific gravity	35.07	.Specific type of detonation
30.02	By pressure measurement	25 00	sensor
30.03	By rate of flow	35.08	Ionization
30.04	Detector detail	35.09	Vibration
31.01	.Ambient air	35.11	Piezoelectric
31.02	Impurity	35.12	Pressure
31.03	.Impurity	35.13	Piezoelectric
31.04	.Pressure	35.14	EXPLOSIVE
31.05	.Detector detail	35.15	.By time measurement (e.g.,
31.06	Semiconductor		burning rate, detonation
31.07	.Particular separator		velocity)
32 R	SPECIFIC GRAVITY OR DENSITY OF	35.16	.Electric sensor
	LIQUID OR SOLID	35.17	.Safety feature or containment
433	.With weighing feature		structure
434	Continuous test fluid supply	36	ILLUMINATING FLUID
435	Plural supports for specimen	37	WITH FLUID PRESSURE
436	Vertically, commonly suspended	37.5	.Dimension, shape, or size
437	Immersion	37.6	Moving specimen
438	.Hydrostatic pressure type	37.7	Sheet or filament
439	Bubble tube	37.8	Plural tests
440	.Multiple floats of graduated	37.9	Internal gauging
	density	38	.Porosity or permeability

2.0		E 4 0 4	
39	.Fluid pressure brake system or unit	54.04 54.05	Friction tube (e.g., capillary)Plural tubes
40	.Leakage	54.05	
	3		By pressure measuring
40.5 R	Fluid handling conduit in situ	54.07	By time interval of travel or
40.5 A	Using acoustic detectors	54 00	flow rate measuring
40.7	By probe gas, vapor, or powder	54.08	Including a photocell
41	Conveyor feed	54.09	By pressure measuring
41.2	With immersion	54.11	Orifice, nozzle, or extrusion
41.3	Defective article discard		means
41.4	Automatic	54.12	Plural fluids (e.g.,
45	With defective article discard		comparison)
45.1	Automatic	54.13	By time interval of travel or
45.2	Electrically controlled		flow rate measuring
45.3	Vacuum support failure	54.14	By force, pressure, or
45.4	Sealed receptacle		displacement measuring
45.5	With immersion	54.15	Gravity movement of an object
45.6	Pneumatic tire		in a liquid (e.g., a bubble)
45.7	Mesh envelope	54.16	With detail of temperature or
45.8	Radiator		pressure regulating or
46	Between fitted parts (e.g.,		compensating means
	joints)	54.17	Using a reference fluid
47	Piston, piston ring, or engine	54.18	With means for restoring an
	valve		object to its initial starting
48	Tire valve		position (e.g., magnetic or
49	Pneumatic tire		fluid means)
49.1	Pipe	54.19	Including detail of a timing
49.2	Receptacle		detection circuit
49.3	Sealed	54.21	Including an object
49.4	.With ram pressure inducer		concentricity guide means
49.5	.Pipe	54.22	Adhesion between wetted
49.6	With power-operated closure or		surfaces
	seal	54.23	Force reactance to member
49.7	.Motor part or auxiliary		driven therein
49.8	.Clamp, plug, or sealing feature	54.24	By vibration
52	TESTING SEALED RECEPTACLE	54.25	Dampening effect (e.g.,
53.01	LIQUID ANALYSIS OR ANALYSIS OF		frequency, amplitude, speed,
	THE SUSPENSION OF SOLIDS IN A		or power measurement)
	LIQUID	54.26	With detail of a drive means
53.02	.Butter fat content		or a detecting means
53.03	.Paper or wood suspension (e.g.,	54.27	With detail (e.g., circuitry)
	paper or wood pulp)		of a drive means or a
53.04	By measuring fluid flow		detecting means
	characteristic (e.g., by	54.28	Rotationally driven member
	volume or rate of flow or by	54.29	Comparator
	change in fluid level)	54.31	By measuring the driving
53.05	.Lubricant testing		force or the speed of the
53.06	By analyzing a characteristic		driven member
	of a measuring surface	54.32	By measuring an opposed drag
53.07	By solid content		force
54.01	.Viscosity	54.33	By measuring angular
54.02	Combined with other measuring	_, -	displacement
-	means	54.34	By measuring a
54.03	Of concrete (e.g., slump		counterbalance or restoring
	indicator)		force

54.35	Including detail of a motor	61.69	By optical measurement
	drive, a stator, or a housing	61.71	For measuring solid components
F4 26	structure of a motor	61 50	(e.g., particles)
54.36	Penetrometer	61.72	By separation and subsequent
54.37	By movement or displacement		measurement (e.g., by
F4 20	between shearing surfaces		weighing, X-ray or microscope,
54.38	Detector detail	61 72	etc.)
54.39	Shearing torque between	61.73	By flowing through barrier or
F 4 4 1	parallel surfaces		restriction and measuring flow
54.41	Vibration		<pre>effect (e.g., pressure, volume of or rate of flow)</pre>
54.42	Thermal	61.74	Thermal
54.43	With detail of a pressure or a	61.75	Vibration
CO 11	temperature regulating means	61.76	VIDIACIONBy thermal measurement
60.11	.Cleaning or foaming ability	61.77	-
61.41	.Content or effect of a	01.77	Vaporization (e.g.,
	constituent of a liquid mixture		<pre>evaporation, distillation, etc.)</pre>
61.42	Metallic particle constituent	61.78	By pressure measurement
61.43	Liquid constituent of a liquid	61.79	By vibration
01.13	mixture	64.41	.Gelling or coagulation
61.44	Plural liquid constituent	64.42	By vibration
01.11	(e.g., multiphase liquid)	64.43	By optical measurement
61.45	By vibration	64.44	.Vapor-liquid ratio
61.46	By vibrationBy thermal measurement	64.45	.Vapor pressure
61.47	By pressure measurement	64.46	Differential pressure
61.48	By optical irradiation	64.47	.Osmotic pressure (e.g.,
61.49	By vibration	01.17	diffusion characteristic)
61.51	Buoyant detector	64.48	.Surface tension
61.52	Chromatography	64.49	By force or torque
61.53	Column detail	64.51	By pressure
61.54		64.52	Liquid droplet
61.55	Paper or thin layer type	64.53	.By vibration
01.55	Including sampling, sample	64.54	.Molecular weight
	handling, or sample preparation	64.55	.Interface
61.56	Detail of fluid handling	64.56	.Sampler, constituent separation,
01.30	means (e.g., valve, control,	01.50	sample handling, or sample
	etc.)		preparation
61.57	With detail of compensation	65.01	CENTER OF GRAVITY; TURNING
01.07	or regulating means		MOMENT; METACENTRIC HEIGHT
61.58	Detector detail	65.02	.Spherical specimen
61.59	With detail of sampling,	65.03	.Ball driving sporting implement
	sample handling, or sample		(e.g., golf club, baseball
	preparation	65.04	bat, etc.)
61.61	Detector detail	65.04	.Watercraft (e.g., metacentric
61.62	Depositing characteristic	65.05	height)
61.63	Settling or filtering ability	65.05	.Air or space vehicle
61.64	By volume or flow rate	65.06	Electric sensor
61.65	Sedimentation rate	65.07	.Dynamic
61.66	With means for accelerating	65.08	Torsional oscillation
C1 C=	solids (e.g., particles)	65.09	.Electric sensor
61.67	By pressure measurement	66 455	ROTOR UNBALANCE
61.68	Including detail of fluid handling means, sampling,	455	.Propeller, impeller, or fluid coupling
	sample handling, or sample	456	Single blade balancing
	preparation	457	.In situ
	preparacion	1 37	· 111 b1ca

458	With counterbalancing means	581	Including axial force
459	.Combined static and dynamic		determination
460	.Dynamic (spinning)	582	Including structural bond
461	Mass centering		evaluation
462	With electrical sensor and	583	Of aircraft or related
	indicator		structural element
463	Wattmeter	584	.By mechanical waves
464	Rotatable switch	585	Including ear or hearing
465	Oscilloscope (cathode ray)		testing
466	Stroboscopically illuminated	586	Reverberation
467	Indicator	587	Acoustic emission
468	With counterbalancing means	588	Structural bond evaluation
469	By radially and	589	Acoustical impedance
	circumferentially adjustable	590	In detection of a liquid
	weights		reaction, a chemical reaction,
470	By circumferentially		or a nuclear reaction
	adjustable weights	591	Listening or sound tube
471	With vibratable mount feature	592	Fluid, fluid leak, or pipe flaw
472	Free floating rotor		detection
473	Horizontal axis	593	Bearing, gear, or related
474	One rotor end universally	F 0 4	moving mechanism
	tiltable	594	Soil or building structure
475	Horizontal rotational axis	595	Frangible
476	Horizontal plane of vibration	596	Beamed
477	Both ends free	597	Velocity or propagation time
478	With selective endlock		measurement
479	Horizontal fulcrum	598	For flaw or discontinuity
480	.Gravitational moment turns rotor	500	detection
	about spin axis	599	Attenuation measurement
481	Ways	600	For flaw or discontinuity
482	.Gravitational moment tilts rotor	601	detection
	about axis transverse to spin axis	601	Having plural, diverse forms of radiant energy
483	Universally tiltable	602	With signal analyzing or
484	With tapered rotor centering	002	mathematical processing
101	means	603	Acoustic holography
485	With expansible or	604	Having means substituted for
103	contractible centering means	001	reference signal
486	With suspension means	605	Liquid or deformable surface
487	.Tool and adjunct		holography
570	VIBRATION	606	Imaging of discontinuity with
570.5	.Acoustic levitation		stationary sonic transmitter
570.5	.Test chamber	607	By scan of a sonic receiver
572	.Loose object detection	608	By Bragg diffraction
573	.Hardness or compliance	609	Measuring or testing system
574	.Mechanical impedance		having threshold, gating,
575	Of an elastomer		delay, or blocking means
576	Device having an	610	Electronic gating
370	electromagnetic drive	611	Adjustably responsive to
577	.Fatigue study		information signal
578	Electromagnetic drive	612	Plural gating
579	Electromagnetic drive .Resonance, frequency, or	613	Of noise
517	amplitude study	614	Of signals to pass only
580	Including weight determination		echoes from within test body

615	Of signals to pass only	646	Amplitude, power, or intensity
	echoes from front surface or	647	Current generating or
	flaw and from rear surface of		modifying
	test body	648	Frequency sensitive
616	Of signals to pass only	649	.Sensing apparatus
	echoes from rear surface of	650	Torsional
	test body	651	Vibratable reed
617	Having mechanical delay or	652	With inertia element
	mechanical blocking	653	With light beam indicator
618	Measuring or testing system having scanning means	654	With electrically controlled
619	Programmed scan	6 F F	indicator
620	By reflected wave	655	With light beam indicator
621	Having compound scan	656	By optical holography
622	Of tubing, vessel, or	657	By frequency or phase shift
022	cylindrical object	658	With electrically controlled indicator
623	Scan from within object	659	Spectrum analysis
624	Having separate sonic	660	Rotating machinery or device
	transmitter and receiver	661	Having a probe
625	Having plural sonic type	662	Vibrator
	transmitter or receiver	663	Table, platform, or other
	transducers	003	support
626	Switched	664	Circuitry
627	By reflected wave	665	Having fluid bearing or fluid
628	Having plural sonic type	005	_
	transmitters or receivers	666	pressure actuated
	tranducers	667	Having spring support
629	Having unitary sonic type		Eccentrically vibrated
	transmitter-receiver	668	Electromagnetically vibrated
	transducer	669	Vehicle shaker
630	Establishing resonance in a	670	Treadmill
	test body	671	Having a fluid jet
631	Having automatic gain	672	Having a rotatable imbalanced
	control		mass
632	Sonic wave transmitter or	73	MOISTURE CONTENT OR ABSORPTION
	receiver transducer	E 4	CHARACTERISTIC OF MATERIAL
633	Having transducer scanning	74	.By residual capacity measurement
	means	75	.By heat conductivity
634	Automatic transducer	76	.By desiccation or extraction
	positioning	77	.By wet and dry bulb temperature
635	Rolling contact	78	HARDNESS
636	On railroad rails	79	.Scleroscope or rebound
637	Around cylindrical object	81	.By penetrator or indentor
638	Along cylindrical object	82	Impact type
639	Transducer forms wheel or	83	With successive minor and major
	is within a wheel	0.4	load
640	Scanning curved surface in	84	Soil bearing capacity
	direction of curvature	85	Penetrator element
641	Plural sonic transmitters or	86	EMBRITTLEMENT OR EROSION
	receivers	87	DUCTILITY OR BRITTLENESS
642	Having wave shaping means	760	SPECIMEN STRESS OR STRAIN, OR
643	Nonvibrating transducer		TESTING BY STRESS OR STRAIN
644	Having significant coupling		APPLICATION
	means	761	.Threaded fastener stress
645	Acoustic parameter		
*	•		

762	.Indicating coating or sheet	794	Plural diverse stress-strain
	providing direct visual		tests or composite loads
	indication (e.g., cracking,	795	Strain
	color change)	796	Tension-compression
763	.Specified electrical sensor or	797	\dots Alternating
	system	798	Hydraulic or pneumatic
764	Having level attainment counter		actuation
765	Compensation (e.g.,	799	Specimen cracking or crack
	linearization)		propagation
766	Temperature	800	Optical
767	Plural sensors at single	801	Acoustic emission
	location (e.g., diverse	802	Aircraft structure
	orientation, plural level)	803	Concrete
768	Sensor embedded in specimen	804	Model of structure to determine
769	Coupling circuit for specific		structure properties
	additional purpose (e.g.,	805	Varied in response to specimen
	noise suppression) or having		condition other than failure
	specified structure	806	Varied according to
770	Peak indicating system	000	predetermined pattern
771	Having selector switching	807	Applied directly by fluid
	means	007	pressure
772	Plural sensed signal system	808	Repetitive
773	Specified signal transmitting	809	Plural specimen
	link	810	To failure
774	Specified sensor structure		******
775	Bonded to specimen	811	Electric control circuit or
776	Sensor comprises coating	010	particular loading device
777	Semiconductor	812	Flexing, bending, or folding
778	Vibratory element	813	Compressive
779	Magnetic or inductive	814	Torsional
780		815	Shear
781	Capacitive .Specified load or strain	816	Hydraulic or pneumatic
701	transmission device from		actuation
		817	Motor driven actuating screw
	specimen to electrical detector	818	Compressional
782	Strain multiplier	819	Plural specimen or multiaxial
783			loading
783	.Deformation or change in stress	820	Fluid displacement provides
	after fracture, cutting, or		indication
704	boring	821	To fracture, crushing, or
784	.Earth stresses		yield point
785	.Prestressed specimen	822	Plastic flow or creep
786	.In static structures (e.g.,	823	Residual deformation (e.g.,
	buildings, bridges)		consolidation)
787	.Stress or strain history of a	824	By rotating squeezing element
	specimen without application	825	With hydraulic or pneumatic
	of a load		actuation
788	.By loading of specimen (e.g.,	826	Tensile
	strength of material test)	827	Bond test
789	Stress-strain relationship	828	Strand or chain test
	determination	829	By roller
790	Compression	830	To failure
791	Graphical output	831	Having specified clamp
792	Moving chart	832	Interior to specimen
793	Drum	833	_
		033	Jaws

834	To failure	117.2	.Disparate tests under operating
835	Tear		conditions
836	Pendulum dynamometer	117.3	With continuous operation
837	Hydraulic or pneumatic	117.4	.Thrust measurement (e.g., jet
	actuation		engine)
838	Rupture or burst strength of	118.1	.Testing auxiliary unit
	sheet material by transverse	118.2	Intake air flow
	loading	119 R	.Motor part
839	Including cutting or piercing	120	Piston ring
	element.	119 A	Fuel injection tests
840	Hydraulic or pneumatic	121	BRAKE TESTING
0.10	actuation	122	.Slidable platform
841	Shear	123	.Roller or belt wheel support
842	Bond	124	Relatively shiftable front and
843	By rotary element	124	-
844	Impact (e.g., pendulum)	105	rear wheel supports
845	To fracture or failure	125	Inertia type
		126	With driving effort indication
846	Opposing work holders	127	Single wheel portable unit
0.45	including specimen	128	.Road test attachment or adjunct
847	Torsion	129	.Vehicle installation
848	To failure	130	.Single wheel rotating and
849	Bending, flexing, or folding		resistance measuring means
850	Weld testing	131	Torque measuring lever
851	To failure or fracture	132	.Brake depressor with measuring
852	Loading means intermediate		means
	stationary end holders or	862	DYNAMOMETERS
853	supportsHaving opposite ends of	862.01	.For testing force-biased connections
	specimen clamped	862.02	Ski bindings
854	By angular displacement of	862.03	.For testing relative pulling
	opposite ends of specimen	002.03	power (e.g., for contests)
855	.Support, holder, or housing for	862 041	.Responsive to multiple loads or
	unspecified type electrical	002.011	load components
	sensing element	862 042	Along or about mutually
856	.Specimen clamp, holder, or	002.012	orthogonal axes
	support	862 043	Three dimensional (e.g., x, y,
857	With hydraulic or pneumatic	002.013	z axes)
	actuation of grip	862.044	Using a resistance strain
858	Winding drum or roller type		gage
859	With wedging or camming	862.045	Using a resistance strain gage
	elements contacting specimen		Transducer array (e.g., columns
860	Opposed pair	002.010	and rows)
104	SURFACE AND CUTTING EDGE TESTING	862.05	Applied to guidance means
105	.Roughness	862.06	On machine tools
112	POWER PLANT OR UNIT EFFICIENCY	862.07	To determine distribution of
113	.Automobile fuel consumption	002.07	tensile stress
114	Miles per gallon	862.08	.Responsive to torque
115	.Pressure derivative	862.09	By absorption
116	MOTOR AND ENGINE TESTING	862.11	Having plural brake means
117	.With vehicle wheel supporting	862.12	Having friction brake means
•	roller or belt	862.13	Automatic load control
117.1			
· · -	.Utilizing a test champer or tank	Xh / I 4	Having fluid brake means
	.Utilizing a test chamber or tank to simulate operating	862.14	Having fluid brake means
	to simulate operating conditions	862.14 862.15 862.16	Automatic load control

862.17	Having magnetic or	862.37	By measuring the fluid
	electromagnetic brake means		pressure of a hydraulic
862.18		060 100	coupling
862.191	During transmission to an	862.192	By measuring angular
0.00 0.1	external load	060 100	acceleration
862.21	3	862.193	By measuring an electrical or
	threaded connections (e.g.,		magnetic characteristic of a
060 00	torque measuring wrenches)		torque delivering electric
862.22	With variable capacity or	062 104	<pre>motorBy measuring tension in a</pre>
060 00	sensitivity	002.194	drive belt or chain
862.23	With detection of specific	962 105	By converting transmitted
	torque value or condition	002.193	torque into axial force
862.24	(e.g., peak torque)	062 201	Responsive to force
862.25	Rate of change		To determine tension on a
	Power tongs	002.391	flexible element
862.26	Bending beam type	962 /1	By measuring vibrations (e.g.,
862.27	With recording or totalizing means	002.41	resonant frequency)
862.28	With electrical computation of	862.42	By applying a measured
	horsepower		tensioning force
862.29	By measuring reaction forces		Racket stringing
	of a prime mover		With winding or reeling means
862.31	By measuring reaction forces	862.451	By measuring deflection or a
	of transmission gearing		deflecting force
862.321	By measuring elastic		For testing racket stringing
	deformation of a torque		For testing a drive belt
	transmitting member	862.454	Using a fluid for deflection
862.322	With rotary to linear		or force measuring
	conversion		With angular deflection
862.323	Using a flowing fluid (e.g.,	862.471	Using an elastically
	using a shaft mounted nozzle		deformable force measuring
	and baffle)		means
	Using a light sensor	862.472	With pivoted deflecting
	Using an electrical sensor		member between spaced guides
	Phase angle detection	0.50 4.50	or supports
	Vernier type		Electrical sensor
862.328	By plural toothed or		Resistance strain gage
	notched sensing means		By measuring axial force or
	Interlaced teeth		stretch
862.331	Inductance or reluctance sensor	862.393	Pulling force on an anchoring device
862 333	Variable air gap in a	862.49	To determine axial thrust on a
002.332	magnetic core	002.15	rotating machine element
862 333	Detecting magnetostrictive	862.51	With recording means
002.333	or magnetoelastic property	862.52	With variable capacity or
862 334	Grooved or slotted torsion	002.52	sensitivity
002.334	shaft	862.53	With detection of specific
862 335	Magnetic sleeve or layer	002.33	force value or condition
	Particular constituent		(e.g., peak force)
	Capacitance sensor	862.541	Combined
	Resistance strain gage	862.55	With pressure applying roller
	With noncontact coupling		(e.g., mill roll)
004.009	(e.g., rotary transformer)	862.56	With hoisting means
	(3.3., 100df) cramprofiler)	862.57	With towing means
			With jack or press
			-

060 540		146 0	m'
	With pumping unit	146.8	Tire stem attachments
	By measuring a fluid pressure	147	WIND TUNNEL: AERODYNAMIC WING AND
862.582	Using a load responsive valve	1.40	PROPELLER STUDY
0.50 -00	or restrictor	148	MODEL BASIN AND TESTING TANK
	Pneumatic	149	VOLUMETRIC CONTENT MEASURING
	Using a piston	150 R	COATING MATERIAL: INK ADHESIVE
862.59	By measuring vibrations (e.g.,		AND/OR PLASTIC
	resonant frequency)	150 A	.Bond strength
862.61	By measuring a counterbalancing	152.01	BOREHOLE OR DRILLING (E.G., DRILL
	or restoring force		LOADING FACTOR, DRILLING RATE,
862.621	By measuring elastic		RATE OF FLUID FLOW)
	deformation	152.02	.Formation logging (e.g.,
	With compensation		borehole studies of pressure
	Temperature		derivatives or of pressure-
	Using a light sensor		temperature derivatives)
862.625	Using a specific type of	152.03	During drilling
	electrical sensor	152.04	By drill mud analysis
862.626	Inductance or capacitance	152.05	<pre>Density, porosity, or permeability</pre>
060 600	sensor	152.06	Including oil, gas, or water
	Resistance strain gage	132.00	saturation
862.628	Including a specific type of	152.07	
	electrical circuit		By a core sample analysis
862.629	Specific type of elastic	152.08	Oil, gas, or water saturation
	member	152.09	By a core sample analysis
	Axle or pivot pin	152.11	By a core sample analysis
862.632	Flexible element (e.g.,	152.12	Thermal
	beam, plate, or web)	152.13	With heating or cooling
	Parallel	152.14	With radioactivity measuring
	Cantilever	152.15	With vibration measuring
862.635	Closed loop (e.g., ring or	152.16	With vibration measuring
	tube)	152.17	With detail of a borehole wall
862.636	Specific type of elastic		engaging means
	member	152.18	.Fluid flow measuring or fluid
862.637	Flexible element (e.g., beam,		analysis
	plate, or web)	152.19	During drilling
	Parallel	152.21	Rate of fluid flow
	Cantilever	152.22	Pressure
862.641	Helical or spiral	152.23	With sampling
862.642	Closed loop (e.g., ring or	152.24	From formation wall
	tube)	152.25	With a filter
862.68	By measuring electrical	152.26	With sealing detail
	properties	152.27	Pressure
862.69	By measuring magnetic	152.28	Downhole
	properties	152.29	Rate of fluid flow
862.382	With detail of overload	152.31	Plural diverse measuring
	protection	152.32	Vibration
146	TIRE, TREAD OR ROADWAY	152.33	Thermal
146.2	.Tire inflation testing	152.34	Rotary
	installation	152.35	Magnetic
146.3	By direct fluid pressure	152.36	Packer or deflector detail
	reading	152.37	Steady state fluid flow
146.4	Telemetric (e.g., indicator on		interruption
	cowl)	152.38	Drawdown or shutin test
146.5	Electric	152.39	Fluid injection into formation
			J

152.41	Determining permeability or	170.02	.Relative to aircraft or
	saturation		watercraft
152.42	Determining relative proportion	170.03	Sailboat (e.g., sailing aid)
	of fluid constituent	170.04	.Using a drifter or tracer (e.g.,
152.43	.During drilling		smoke)
152.44	Drill depth rate	170.05	.Using a fluid actuated alignment
152.45	Electronic processing or		device (e.g., wind sock,
	electronic recording		weather vane, etc.)
152.46	Downhole measurement	170.06	With illumination means or an
152.47	Vibration		electro-optical indicator
152.48	Force		(e.g., beacon or signal lamp)
152.49	Force	170.07	With velocity determination
152.51	.Pressure measurement	170.08	Electric sensor
152.52	Plural diverse measurements	170.09	Electric sensor
152.53	With recorder	170.11	.With velocity determination
152.54	.Downhole test	170.12	Thermal
152.55	Fluid test	170.13	Acoustic
152.56	Free point or stuck point	170.14	Fluid pressure differential
152.57	Casing or cementing	170.15	Thrust or drag force
152.58	Using vibration	170.16	METEOROLOGY
152.59	By measurement of response due	170.17	.Precipitation (e.g., rain gauge)
	to force	170.18	With recorder detail
152.61	.Pump test	170.19	With heater or vaporizer
152.62	With recorder	170.21	Sensing accumulated amount
156	STATISTICAL RECORD VERIFYING		(e.g, rain gauge)
157	RECORD STRIP SPROCKET HOLE	170.22	Using a float
	TESTING	170.23	Weight actuated (e.g., tipping
158	HOISTING CABLE AND ROPE		bucket)
159	SHEET, WOVEN FABRIC OR FIBER	170.24	.Electric disturbance (e.g.,
160	.Filament		lightning)
161	SPRING TESTING	170.25	.Micrometeorite
162	TOOTHED GEAR	170.26	.Icing condition (e.g.,
163	COIN		accretion)
164	MINER'S LAMP	170.27	.Naturally occurring radiation
167	ORDNANCE AND PROJECTILE		(e.g., solar radiation)
168	BLOWER, PUMP, AND HYDRAULIC	170.28	.Using unmanned, self-controlled
	EQUIPMENT		airborne instrumentation
169	FLOUR, DOUGH, OR BREAD		carrier (e.g., radiosonde)
172	ORTHOPEDIC PRESSURE DISTRIBUTION	170.29	OCEANOLOGY (E.G., OCEANS, RIVERS,
178 R	NAVIGATION		OR LAKES)
179	.Rate of climb (pressure type)	170.31	.Surface wave
180	.Leeway incidence or side-slip	170.32	.Bottom sediment or soil
181	.Ship's log	170.33	.Towed probe
182	Pressure differential type	170.34	.Unattached, self-contained probe
183	With integrating means		with buoyancy controlled level
184	Drag type		of descent
185	Rotary	861	VOLUME OR RATE OF FLOW
186	Vane type	861.01	.With indirect temperature or
187	Rotary		density compensation
178 Н	.Helicopter	861.02	Electrical
178 Т	.Take-off and landing monitors	861.03	Digital
170.01	FLUID FLOW DIRECTION (E.G., WIND	861.04	.Of selected fluid mixture
	SOCK, WEATHER VANE, ETC.)	061 05	component
		861.05	.By measuring transit time of
			tracer or tag

861.06	With autocorrelation or cross-	861.357	Drive and sensor element
061 05	correlation detection		located on straight conduit
861.95	Thermal tracer or tag	061 00	portion
861.07	.By measuring tracer	861.39	.Using an applied fluid jet
	concentration	861.41	.By counting drops, bubbles, or
861.08	.By measuring electrical or		particles
	magnetic properties	195	.System
861.09	Ionization type	196	Flow comparing
861.11	Electromagnetic induction	197	Compound meter
	(e.g., Faraday type)	198	.Combined
861.12	With detecting electrodes	199	With pressure regulator or
861.13	Including permanent magnet or		demand limit
	D.C. field	200	With gas and liquid separator
861.14	For dielectric fluids	201	With connection or box
861.15	Plural pairs of detecting	202	.Proportional
	electrodes	202.5	Thermal sensing of flow
861.16	Including electrically	203	With valved proportioning means
	interconnected or synchronized	204.11	.Thermal type
	input and output circuit	204.12	With conduit extending between
861.17	Selective or periodic		heat sinks
	sampling	204.13	With auxiliary fluid contacting
861.18	.By measuring vibrations or		or in heat exchange relation
	acoustic energy		with flow path (e.g.,
861.19	Produced by fluidic oscillator		thermodilution)
861.21	Caused by fluid interaction	204.14	Including digital or pulse
	with obstacle		measuring circuitry
861.22	Vortex shedders	204.15	Including detail of feedback or
861.23	Acoustic		rebalancing circuitry
861.24	Movable sensor responsive to	204.16	By control of a separate
	vortices		heating or cooling element
861.25	Reflection or scattering of	204.17	With distinct heating circuitry
	acoustic waves		for a self-heated sensor
861.26	Deflection of acoustic waves	204.18	Including response
861.27	Transit time of acoustic waves		characteristic or condition
861.28	Transmitted along single path		compensation
861.29	In both directions	204.19	For temperature
	simultaneously	204.21	With fluid flow deflector or
861.31	Transmitted along parallel		restrictor (e.g., baffle,
	paths		constriction)
861.32	.By measuring swirl rate imparted	204.22	With sensor housing
	by static means	204.23	Having particular electrical
861.33	With turbine in a swirl chamber		heating, cooling, or thermal
861.34	Precess type		sensing element
861.351	.Mass flow by imparting angular	204.24	Thermoelectric junction
	or transverse momentum to the	204.25	Resistive element
	fluid	204.26	With substrate carrier (e.g.,
861.352	Rotated resiliently coupled		thin film)
	elements	204.27	Wire type (e.g., hot wire)
861.353	Reaction turbine or vane	861.42	.Using differential pressure
	Coriolis or gyroscopic	861.43	With time integration
	Vibrated conduit	861.44	By electrical means
	Signal processing or analysis	861.45	By mechanical means
	details	861.46	Including pressure applied to
			liquid column or reservoir

861.47	Pressure applied to movable	861.77	.Using rotating member with
	<pre>member (e.g., a diaphragm)</pre>		particular electrical output
861.48	With linearization (e.g.,		or circuit
	square root extraction)	861.78	With pick-up coil
861.49	Pressure applied to liquid	861.79	.Using turbine
	column or reservoir	861.81	With response modification
861.51	With linearization	861.82	Pressure responsive valve or
861.52	With restriction		restriction
861.53	Automatically variable	861.83	Axial supply and delivery
	restriction	861.84	Differentially responsive
861.54	Slotted piston or cylinder		turbines
861.55	Cone and ball or disk	861.85	Anemometers
861.56	With structure of coupling	861.86	With fluid directed radially
	to indicator		outward
861.57	With structure of float,	861.87	With flow direction retained in
	float tube, or float guide		a plane perpendicular to
861.58	Orifice and tapered plug		turbine axis
861.59	Including recirculation pump	861.88	Mechanical coupling to
861.61	Orifice or flow nozzle		indicator
861.62	Adjustable	861.89	Axial supply and delivery
861.63	Venturi	861.91	With structure to reduce
861.64	Inlet or outlet structure		friction or wear
861.65	Pitot	861.92	With structure of bearing or
861.66	Sensing at plural transverse		turbine support structure
	locations	861.93	With mechanical coupling to
861.67	Adjustable		indicator
861.68	With heating element	861.94	With magnetic coupling drive
861.69	Centrifugal		assembly
215	.Weir type	232	.Expansible chamber
216	Submerged orifice or discharge	233	With variable indicator drive
	nozzle	234	Wet type (e.g., liquid seal)
	.Tank type	235	Rotary drum
217	Rotary tank or bucket	236	Oscillating bell or drum
218	With power drive	237	Reciprocating bell
219	Plural measuring chamber	238	Nutating bell
220	With fluid-pressure operated	239	Reciprocating piston or
220	valve		cylinder
221	With float operated valve	240	Transversely reciprocating
222	With siphon discharge		piston and cylinder
223	Single measuring chamber	241	Oscillating cylinder
224	With float operated valve	242	Valveless
225	With trip gear	243	Duplex
225	With trip gearWith siphon discharge	244	Wobble plate or cam
227		245	With transverse shaft
861.71	.Area-velocity integrating	246	With single distributing
001./1	.By measuring thrust or drag forces	210	valve
861.72	By changing fluid direction	247	Radial cylinder
861.73	Impact of particulate material	248	Valved piston
861.74	On a vane	249	With fluid actuated valve
861.75	With rotation about a fixed	250	With piston or rod actuated
001./3	axis		valve gear
861.76	Spring biased	251	With trip gear
301.70	opring brabea	252	Oscillating piston
		253	Rotary piston or cylinder
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254	With compensating bypass	309	Buoyancy type
255	With orbital movement	310	Total registering
256	Plural stationary abutment	311	Multiple floats
257	Single stationary abutment	312	Recording
258	Nutating piston	313	With electrically controlled
259	With sliding vane		indicator
260	With swinging vane	314	With position sensing
261	With interengaging pistons	315	With float lock
262	Diaphragm or collapsible wall	316	With fluid transmission
263	Multiple diaphragm	317	Pivoted float arm
264	Duplex	318	With flexible cable
265	With rotary valve		transmission
266	Crank operated	319	Vertically reciprocable
267	With flag rod	320	With spiral cam or guide
268	With oscillating or	321	With flexible cable
	reciprocating valve		transmission
269	Single diaphragm	322	Indicator stem attached
270	With diaphragm actuated valve	322.5	Float structure
	trip gear	323	.Sight glass
271	With fluid actuated valve	324	With cleaner
272 R	.Element	325	With guard or casing
273	Casing	326	Boiler type
274	Diaphragm meter type	327	Reflector or magnifier
275	Antireversing mechanism	328	Boiler type
276	Check valve	329	Duplex or multiple section
277	"Frostproof" construction	330	Transparent closure plate type
278	Diaphragm mounting	331	Bull's eye type
279	Diaphragm	332	With valve
280	With oiling structure	333	Safety feature
281	Tangent adjustment	334	Transparent closure plate type
272 A	With remote register	290 B	.Ullage volume
290 R	LIQUID LEVEL OR DEPTH GAUGE	290 V	.Vibratory type
291	.With other measuring device	379.01	MUSCULAR FORCE (E.G., STRENGTH
292	Thermometer		TESTING, EXERCISING OR
293	.With illumination		TRAINING EFFORT, ETC.)
294	.With funnel or hose nozzle	379.02	.Jaw or hand (e.g., gripping,
295	.Thermal type		pinching, or biting)
296	.Weighing type	379.03	Using a resilient force-
297	.Test cock type		resister
298	.Exploring tube	379.04	.Impact
299	.Hydrostatic pressure type	379.05	Using a resilient force-
300	Bathometer type		resister
301	With electrically controlled	379.06	.Including a rotary element with
	indicator		a braking means (e.g.,
302	With fluid displacement or		friction brake)
	replenishment	379.07	Pedal driven (e.g., cycle
303	Suction type or vacuum tank		ergometer)
	action	379.08	.Using a resilient force-resister
304 R	.Immersible electrode type	379.09	.Using hydraulic or pneumatic
304 C	Capacitative		force-resister
305	.Float	382 R	GRAVITATIONAL DETERMINATION
306	Combined	383	.Torsion balance
307	With warning signal or alarm	382 G	.Gravitational variation
308	Electric	488	SPEED, VELOCITY, OR ACCELERATION
300			

489	.Recording or registering interrelated factors	507	.Comparison to a fixed standard, master or reference speed
490	.With distance registering means		device
491	.With means for retaining reading	508	.With governor drive failure
492	Maximum acceleration		responsive means
493	.Structural installation or mounting means	509	.With response to a nonspeed condition
494	Installed in rotary speed	510	.Response to multiple sensing
	source		means or motion conditions
495	.Indicating diverse conditions	511	Response to both velocity and
496	.Vibration control or antistick		acceleration
	means for reading structure	512	Centrifugal-type velocity
497	.Temperature compensator		sensor and separate inertial
498	.Adjusting means for reading		means
	structure	513	.With manual control
499	.Illuminated reading device	514.01	.Acceleration determination
500	.Liquid surface is or moves		utilizing inertial element
	reading means	514.02	Angular acceleration
501	Surface of revolving liquid	514.03	Fluid or fluent inertial mass
	body		(e.g., electrons, ions,
502	.Externally connected pressure		plasma)
332	gauge gives reading	514.04	Inertial flywheel
503	.Means integrating time and	514.05	Fluid or fluent material
303	acceleration	514.06	Fluid or fluent material
503.3	Gyroscope		support of an inertial element
504.01	.Angular rate using wave or beam	514.07	Gas
304.01	motion (e.g., Sagnac type)	514.08	Magnetic fluid
504.02	.Angular rate using gyroscopic or	514.09	Fluid or fluent inertial mass
304.02	Coriolis effect	514.11	Detection by fluid pressure
504.03	Multisensor for both angular	514.12	Fluid or fluent material
JU4.03	rate and linear acceleration	311.12	dampening of an inertial
504.04	Vibratory mass		element
504.04	Fluid or fluent inertial mass	514.13	Gas
504.05		514.14	Specific type of dampener
	<pre>(e.g., electrons, ions, plasma)</pre>	J11 . 11	(e.g., eddy current dampener)
504.06	Fluid jet	514.15	Spinning or vibrating
504.07	Rotary		accelerometer
504.08	Rotary gyroscope	514.16	Specific type of electric
504.09	Gimbal support		sensor or specific type of
504.11	Flexible rotor or flexibly		magnetic sensor
	mounted rotor	514.17	Rebalance
504.12	Vibratory mass	514.18	Electrostatic restoring means
504.13	Hollow circular-shaped	514.19	Radiant energy sensor (e.g.,
301.13	inertial element		optical, charged, or
504.14	Elongated element with spaced		radioactive particle)
	supports	514.21	Pendulum or beam
504.15	Cantilever	514.22	Including a bearing support
504.16	Tuning fork	514.23	Including a flexure support
504.17	.Angular rate using a fluid	514.24	Including an elastic support
	vortex rate sensor		for an inertial element (e.g.,
504.18	.With rotary gyroscope	F14 0F	spring)
506	.Means integrating intermittent	514.25	Charged particle or
	speed source impulses	F14 06	radioactive particle sensor
		514.26	Optical sensor
		514.27	Frequency or phase shift

514.28	Surface acoustical wave	545	Spring and adjustor connect
514.29	Having a vibrating element		paired weights
514.31	Inductive or magnetic sensor	546	Leaf spring biasing means
	(e.g., Hall effect sensor)	547	Toggle joint mounted
514.32	Capacitive sensor	548	Radially projecting striker
514.33	Resistive sensor		type
514.34	Piezoelectric sensor	549	Rigid mass crossing axis at an
514.35	Electric		acute angle
514.36	Pendulum or beam	550	Weighted bell crank lever type
514.37	Including a pivot support	551	Surface and follower (e.g., cam
514.38	Including an elastic support		or weight as wedge)
	for an inertial element (e.g.,	384	BAROMETER (E.G., ALTIMETER)
	spring)	385	.Mercury
514.39	.Magnetic speed measuring or	386	.Aneroid
011.07	mechanical speed measuring	387	Settable
	with ancillary magnetic means	700	FLUID PRESSURE GAUGE
	or with ancillary electrical	701	.Null balance type
	means	701	.Vibration type
519.01	Eddy current drag means (e.g.,	702	Ultrasonic
317.01	drag cup)		
520.01	With a flux adjusting means	704	Vibrating strip or wire
520.01	.Fluid	705	.Photoelectric
522	Dampening means	706	.With protective separator
523		707	.With fluid pulsation dampener
	Expansible chamber devices	708	.With pressure and/or temperature
524	Fluid coupling or torque		compensation
F.O.F.	convertor type	709	.With excess or maximum
525	Brake (e.g., vanes in air)		registering
526	.With dampening or shock-	710	.With steam trap
	absorbing means	711	.With variable drive
527	.With input means	712	.With recorder
528	Selective speed transmitter	713	.With float
529	Frictional (e.g., friction	714	.Combined
	wheels)	715	.Diaphragm
530	.With output transmitting	716	Multiple and/or differential
	mechanism	717	With electrical readout
531	With transmission adjustment	718	Capacitive
	means	719	Resistive
532	Gear	720	Strain gauge
533	Rectilinear rack	721	Piezoresistive
534	Surface and follower	722	Electromagnetic
535	.Centrifugal weight type	723	With electrical readout
536	Weight lever arm or pivot	724	Capacitive
	automatically variable during	725	Resistive
	operation	726	
537	Bias automatically variable	720	Strain gaugePiezoresistive
	during operation		
538	Snap action	728	Electromagnetic
539	Limit stop for weight	729.1	Bellows
540	With adjusting means	729.2	Capsule
541	Diverse	730	Expansible conduit
542	Biasing weight	731	Sack
543	Lever or gear adjustor	732	.Bourdon
544	Adjusting screw means and bias	733	With electrical readout
J 1 1	spring concentric to	734	Resistive
	centrifugal axis	735	Electromagnetic
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736	Multiple and/or differential	863.57	With blocking means
737	Intermediately supported	863.58	Pitot tube type
738	Safety pressure release casing	863.61	Branched conduit
739	With mechanism dampening	863.71	.Conduit or passageway section
740	With zeroizing adjustment		capture chamber
741	Bourdon tube and mounting	863.72	Single valve unit
742	Helical Bourdon tube	863.73	Capture chamber within valve
743	Spiral Bourdon tube		unit
744	.Piston	863.81	.Withdrawing through conduit or
745	With electrical readout		receptacle wall
746	Resistive	863.82	Capture element movable to
747	.U-tube liquid column		plural loci
748	Sphygmomanometer	863.83	With metering means or pump
749	With electrical readout	863.84	Expansible chamber
750	Resistive	863.85	Lock or seal for sampler
751	.Balance		insertion or removal
752	.McLeod type	863.86	Valve or restriction
753	.Electrical	863.91	.Conveyor coacting
754	Semiconductor	863.92	Integral with conveyor
755	Pirani type		structure
756	.Mounting and connection	864	.Capture device
863	SAMPLER, SAMPLE HANDLING, ETC.	864.01	Pipette or cannula
863.01	.Automatic control	864.02	Self-filling of self-limiting
863.02	Ouantity or rate of flow	864.03	With user mouth protection
	responsive	864.11	With suction applying and
863.03	Rate of sample flow		liquid discharge means
	continuously controlled	864.12	With separate diluent supply
863.11	.With heating or cooling	864.13	Piston within pipette
863.12	And separation	864.14	With particular connection or
863.21	.With constituent separation		release means
863.22	Particle impact	864.15	With valve for connection to
863.23	Sieve, filter, or semipermeable		external pressure source
	membrane	864.16	Piston and cylinder
863.24	Cleaning	864.17	Plural
863.25	Changing feature	864.18	Plural or adjustable limit
863.31	.Plural parallel systems		stops
863.32	Pipette	864.21	With sample supply to analyzer
863.33	Plural capture, single receiver	864.22	With pipette contacting second
863.41	.Flow divider, deflector, or		fluid supply
	interceptor	864.23	Pipette fixed; source movable
863.42	Attached to mouth of dumpable	864.24	Pipette longitudinally movable
	receptacle	864.25	And transversely movable
863.43	Having precapture flow guide or	864.31	With capture device transporter
	homogenizer	864.32	Cyclically operated scoop
863.44	Oscillating or reciprocating	864.33	Capture by fluid current
863.45	Rotary	864.34	Sample meter or pump
863.51	Having an upstream-facing-	864.35	Chamber with alternate
	opening-type capture element		pressure or vacuum applier
863.52	With receptacle	864.41	Cutter, tearer, or scraper
863.53	Mounted for flow zone	864.42	Jaw
	traverse	864.43	Auger or drill
863.54	Mounted for reciprocation	864.44	Corer
863.55	Oscillating	864.45	With corer advancing means
863.56	Rotary	864.51	Receptacle type
	<u>4</u>		

864.52 864.53 864.54 864.55	<pre>PreevacuatedMoldWith suction applierWith diminutive fill</pre>	866.2 866.3 866.4 866.5	.Rate of change DISPLAY OR DISPLAY DEVICE DETAILS SPECIMEN MODEL OR ANALOG PROBE OR PROBE MOUNTING
864.56 864.57	<pre>passagewayMating sectionsLabyrinth</pre>	432.1	MISCELLANEOUS
864.58 864.59 864.61	With sample conditionerWith holder or connectorFluid displacement	CROSS-F	REFERENCE ART COLLECTIONS
864.62	Expansible chamber	900	AUTOWATE CATH COMPOS
864.63	With valve or closure	901	AUTOMATIC GAIN CONTROL
864.64	Side opening	901	DIGITAL READOUT
864.65	Contact actuated		
864.66	Support force or inertia		
864.67	actuated	FOREIGN	N ART COLLECTIONS
	Messenger actuated		
864.71	Material for particulate adhesion		CLASS-RELATED FOREIGN DOCUMENTS
864.72	Capillary attraction retention	=	eign patents or non-patent litera-
864.73	Conduit		om subclasses that have been
864.74	With penetrating means		ified have been transferred
864.81	.Analyzer supplier	-	y to FOR Collections listed below.
864.82	Having sample capsule support		or non-patent literature. The par-
864.83	Having sample confining chamber	-	cal references in the Collection
864.84	Connector for separable holder		refer to the abolished subclasses
864.85	Connector for separable holder		ich these Collections were derived.
864.86	Septum structure		Ton those corrections were derived.
864.87	Syringe with connector		
864.91	.Sample holder		
426	MEASURING VESSEL	EOD 100	DODE HOLE AND DOTLLING CHIDY (73/
427	.With depth indication	FOR TOO) BORE HOLE AND DRILLING STUDY (73/ 151)
428	Removable indicator	₽∩ ₽ 1∩1	Drill depth-rate (73/151.5)
429	.Capacity adjustable		2 .Formation logging (73/151.5)
430	INSTRUMENT MECHANISM DAMPENING		BBy drill mud or core analyst
431	INSTRUMENT CASING	FOR 103	(73/153)
865	MASS	FOR 104	(73/133) 1Thermal (73/154)
865.1	HUMAN STRESS LIMIT (E.G.,		5 .Fluid intrusion, theft of flow
065 0	DECOMPRESSION GAUGE FOR DIVERS)	1010 103	study (73/155)
	HYDRAULIC ALTIMETER		
	TESTING BY IMPARTING MOTION		
805.4	ANALYZING BODILY MOVEMENT (E.G., SKILLS OR KINETICS OF HANDWRITING)	DIGESTS	<u>5</u>
865.5	PARTICLE SIZE	DIG 1	VIBRATION
865.6	SIMULATED ENVIRONMENT (E.G., TEST		MAGNETOSTRICTIVE
	CHAMBERS)		HALL EFFECT
865.7	TOUCH OR TASTE		PIEZOELECTRIC
865.8	INSPECTING		LIQUID LEVELS WITH MAGNETIC
865.9	TESTING OF APPARATUS	-	TRANSMISSION
866	TESTING OF MATERIAL	DIG 8	FLUID CIRCUITS
866.1	INSTRUMENT MECHANISM OR TRANSMISSION		MOLTEN METAL SAMPLERS

DIG 10 INSTRUMENT MECHANISMS WITH ACCELERATION COMPENSATION

DIG 11 PHOTOELECTRIC CELL